DR. SANDEEP DALAL

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1. Name	:	Dr. Sandeep Dalal
2. Date of birth	:	Dec 24, 1980
3. Designation	:	*Associate Professor*, Department of Computer Science & Applications MDU Rohtak **Mobile:** 9896105224
4. Academic Qualifications	:	• **Ph.D. (Computer Sc.)** • **NET** • **MCA**
5. Teaching Experience	:	15+ years
6. Research Experience	:	10+ years
7. Research Interests	:	Software Testing, Software Engineering, Artificial Intelligence, IoT, Data Mining, Computer Networks, Operating System, E-Commerce, Web Technologies, Information Technology
8. Research Project, Papers, Books &Chapters	:	Research Project Completed-1 Papers: 110 Books – 03 (Joint), Book Chapters: 7
9. Ph.D. Thesis Guided	:	Awarded: 03
10. MCA/M.Sc. Projects & M.Tech. Thesis guided	:	MCA/M.Sc. Projects: about 105; M.Tech Thesis: 11

PROFESSIONAL BACKGROUND

- Working as Associate Professor in Department of Computer Science and Applications in Maharshi Dayanand University, Rohtak.
- Teaching Experience – 15 Years
- Research Areas- Software Testing, Software Engineering, Artificial Intelligence, IoT, Data Mining, Computer Networks, Operating System, E-Commerce, Web Technologies, Information Technology

- Worked as a Member of U.G. and P.G. Boards of Studies in Computer Science & Applications, M. D. University, Rohtak.
- Worked as a Training and Placement Coordinator in Department of Computer Science and Applications from 2010 to 2015.
- Worked as a Member in other committees, conferences in M. D. University, Rohtak.
- Member/Reviewer many international conferences and journals.
- Life Member CSI(Computer Society of India)
- Life Member ISCA (Indian Science Congress Association)

ACADEMIC BACKGROUND
- Ph.D. (Computer Science and Applications) and from Maharshi Dayanand University, Rohtak in 2013.
- Qualified NET (National Eligibility Test) in Computer Science and M.Phil.
- M.C.A. (Master of Computer Applications) from Maharshi Dayanand University, Rohtak in 2004.

- ## Research Project

  Completed Minor Research Project titled "A Futuristic Investigative study of Green-IoT Practices for Sustainable Development" granted under Radha Krishnan Foundation Fund, 2020-21 from M.D.U., Rohtak.

  Book Published
- Dr. Sandeep Dalal, Kamna Solanki, "Data Communication and Networking", Unique Publications, ISBN: 978-93-83861-51-4 (June 2015)

- Dr. Sandeep Dalal, Kamna Solanki, "Computer Fundaments", Research India Publications, ISBN: 978-93-86138-74-3 (2017)

- Dr. Sandeep Dalal, Kamna Solanki, "Programming in C Language", Evincepub Publications, ISBN: 978-93-90197-30-9 (June 2020)

  Book Chapter Published

- Dr. Sandeep Dalal, Green IoT: Technological Need for Sustainable Development and Smart World", e-Book ISBN: 9781003032397 **TAYLOR AND FRANCIS 2021**

- Authors: Kamna Solanki, Yudhvir Singh, Sandeep Dalal, Praveen Ranjan Srivastava, Chapter: *Test Case Prioritization: An Approach Based on Modified Ant Colony Optimization*, pp. 213-223, DOI 10.1007/978-981-10-0287-8_19. Book: Emerging Research in Computing, Information, Communication and Applications, May 2016. Publisher: **[SPRINGER SINGAPORE]**, Print ISBN 978-981-10-0286-1, Online ISBN 978-981-10-0287-8, Available Online at: http://link.springer.com/chapter/10.1007/978-981-10-0287-8_19

- Kamna Solanki, Sandeep Dalal, Yudhvir Singh, "Impact of m-ACO Based Test Suite Prioritization on Software Quality" **SPRINGER BOOK –Chapter-** International Conference on Advances in Systems, Control and Computing (AISCC-2020), February 27-28, 2020 MNIT Jaipur, India.

- Sandeep Dalal, Kamna Solanki, "Green *IoT: Technological Need for Sustainable Development and Smart World"* Book Title: "**Green IoT for Smart Cities**" Publisher: CRC PRESS BY **TAYLOR AND FRANCIS,** Chapter No.: **Chapter 1, pp. 1-22,**e-Book ISBN: 9781003032397[DOI: https://doi.org/10.1201/9781003032397

- Kamna Solanki, Sandeep Dalal, Yudhvir Singh " Impact of m-ACO Based test suite prioritization on software Quality"Book Title: "**Applications of Advanced Computing in Systems"** Publisher: **SPRINGER,**Chapter No.: **Chapter 32, pp. 289-297,**ISBN 978-981-33-4861-5, e-ISBN 978-981-33-4862-2 ,DOI: https://doi.org/10.1007/978-981-33-4862-2

- Amita Dhankhar, Kamna Solanki, Sandeep Dalal, Omdev "*Predicting Students performance using educational data mining and learning analytics: A systematic literature review"*Book Title: "**Lecture Notes on Data Engineering and Communications Technologies"** Publisher: **SPRINGER,**Chapter No.: **Chapter 11, pp. 127-140,**ISBN 978-981-15-9650-6, e-ISBN 978-981-15-9651-3,DOI: https://doi.org/10.1007/978-981-15-9651-3

Session Chair/Co-Chair/Reviewer/Programme Committee in Conferences

- Session Chair in SPRINGER International Conference on Advances in Systems, Control and Computing, February 27-28, 2020 MNIT Jaipur, India.
- Conducted a Theme Based Special Session /Reviewer for **SPRINGER** International Conference in Emerging Trends in Information Technology (ICETIT-2019) organized by Institute of Information Technology and Management IITM, Janakpuri, Delhi from June 21-22, 2019.
- Invited as Reviewer for International Conference on Advancement in Computing and Management (ICACM-2019) organized by Jagannath University, Jaipur, India from April 13-14, 2019.
- Program Committee Member for 5th International Online Conference on Conscientious & Unimpeachable Technologies (ICCUT-2020) by IIIR, Sonipat from 16-17th May 2020.
- Reviewer-International Journal of Software Engineering, Technology and Applications (IJSETA) -Inderscience Publishers, EAI (Europian Alliance of Innovation) Publication.

- Session Chair on topic "Artificial Intelligence" in "Congress on Intelligent Systems" [Online] CIS 2020 from 05-06 Sept, 2020.

- Paper Reviewer in ICCCIS 2021 sponsored by IEEE organized by School of Engg. And Technology, Sharda University, Noida from 19-20 Feb 2021.

- Paper Reviewer and Program Committee Member in International Conference on Communication and Intelligent Systems(online) ICCIS 2020 organized by Global Institute

of Technology, Jaipur from 26-27 Dec, 2020.

- Paper Reviewer and Program Committee Member in International Conference on Data Science and Applications (ICDSA 2021) organized by Jadhavpur University, Kolkata from 10-11April, 2021.

Papers Published in International Journals

- Dahiya, V. and Dalal, S., 2022. E**AHUIM: Enhanced Absolute High Utility Itemset Miner for Big Data.** International Journal of Information Management Data Insights, 2(1), p.100055.

- Gulia, N., Solanki, K. and Dalal, S., 2021. **Detection of Intruder in Cloud Computing Environment using Swarm Inspired based Neural Network**. *International Journal of Advanced Computer Science and Applications, 12(9), pp 456-464.*

- Vandna Dahiya, Sandeep Dalal, **Big data Mining: Current Status and Future Prospects**, International Journal of Advanced science and Technology, Volume 29, No 3, (2020), pp. 4659- 4670, ISSN: 2005-4238 IJAST, **UGC Care List – II, Scopus Indexed.**

- Vandna Dahiya, Sandeep Dalal, **Big Data Analytics: Applications and Challenges**, International Journal of Future Generation Communication and Networking Vol. 13, No. 3, (2020), pp. 4107–4113, ISSN 2233-7857, **UGC CARE LIST –II, SCIE, Web of Science. Emerging Sources Citation Index**

- Vandna Dahiya, Sandeep Dalal, **Big Data Preprocessing: Needs and Methods**, Accepted for Journal Warse, IJETER, **UGC Care List – II, Scopus Indexed**

- Vandna Dahiya, Sandeep Dalal**, Parallel Approaches of Utility Mining for Big data**, Accepted in Journal – Webology, ISSN ISSN-1735-188X, **UGC Care List – II, Scopus Indexed**.

- Sandeep Dalal, Vandna Dahiya, **A Novel Technique - Absolute High Utility Itemset Mining (AHUIM) Algorithm for Big Data,** Accepted for Journal Warse, IJATCSE, **UGC Care List – II, Scopus Indexed.**

- Vandna Dahiya, Sandeep Dalal**, A Scalable Approach for Data Mining – AHUIM Received December 04, 2020; Accepted February 10, 2021,ISSN: 1735-188X,DOI: 10.14704/WEB/V18I1/WEB18029**

- Nishika, Kamna Solanki, Sandeep Dalal. " A study of Intrusion Detection System for Cloud Network", International Journal of Scientific and Technology Research , Vol. 9, Issue 4, April 2020, pp. 2514-2519, ISSN 2277-8616. **[Journal indexed in SCOPUS]**

- Omdev Dahiya, Kamna Solanki, Sandeep Dalal, Amita Dhankhar " An exploratory

Retrospective assessment on the usage of bio inspired computing algorithms for optimization", International Journal of International Journal of Emerging Trends in Engineering Research , Vol. 8, Issue 2, February 2020 , pp. 414-434, ISSN 2347-3983 **[Journal indexed in SCOPUS/ICI] https://doi.org/10.30534/ijeter/2020/29822020**

- Omdev Dahiya, Kamna Solanki, Sandeep Dalal, Amita Dhankhar " Regression Testing: Analysis of its techniques for test effectiveness", International Journal of Advanced Trends in Computer Science and Engineering , Vol. 9, Issue 1, January 2020, pp. 737-744, ISSN 2278-3091. **[Journal indexed in SCOPUS/ICI] https://doi.org/10.30534/ijatcse/2020/105912020**

- Sandeep Dalal, Kamna Solanki, Sudhir, Diksha " Exploring the essentials and principles of software development", International Journal of Advanced Trends in Computer Science and Engineering , Vol. 8, Issue 6, December 2019, pp. 3504-3510, ISSN 2278-3091. **[Journal indexed in SCOPUS/ICI] DOI:** https://doi.org/10.30534/ijatcse/2019/129862019

- Omdev Dahiya, Kamna Solanki, Sandeep Dalal " Comparative Analysis of Regression Test Case Prioritization Techniques", International Journal of Advanced Trends in Computer Science and Engineering , Vol. 8, Issue 4, August 2019, pp. 1521-1531, ISSN 2278-3091. **[Journal indexed in SCOPUS/ICI]**

- Ritu, Kamna Solanki, Amita Dhankhar, Sandeep Dalal " An Analysis of software reliability estimation using fuzzy logic function with COCOMO II Model", International Journal of Computer Science and Engineering , Vol. 7, Issue 6, June 2019, pp. 623-626, e-ISSN 2347-2693. [UGC Approved Journal till 30 June 2019]

- Aisha, Kamna Solanki, Sandeep Dalal, Amita Dhankhar " Comparative Performance Analysis of Data Mining in Diabetes", International Journal of Computer Science and Engineering , Vol. 7, Issue 6, June 2019, pp. 88-94, e-ISSN 2347-2693. [UGC Approved Journal till 30 June 2019]

- Sandeep Dalal, Sudhir, Kamna Solanki, "Comparative Performance Evaluation of BA-TPF technique for regression test case optimization", Indian Journal of Science and Technology, Vol. 11, Issue 48, Dec 2018, pp 1-10, p-ISSN 0974-6846, Online ISSN 0974-5645. DOI: 10.17485/ijst/2018/v11i48/131746.

- Sandeep Dalal, Susheela, kamna Solanki "Comparative analysis of various testing techniques used for aspect oriented software system ", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 12, Issue 1, Oct 2018, pp 51-60, ISSN 2502-4752. DOI: 10.11591/ijeecs.v12.i1.pp51-60 **[SCOPUS]**

- Sandeep Dalal, Sudhir, kamna Solanki "Experimental analysis of BA-TPF technique for regression test case optimization ", International Journal of Engineering and Technology, Vol. 7, Issue 4, Sept 2018, pp 3135-3141, ISSN 2227-524X. DOI: 10.14419/ijet.v7i4.18626**[SCOPUS]**

- Sandeep Dalal, Sudhir, kamna Solanki "BA-TPF : A novel approach towards regression test case optimization ", International Journal of Engineering and Technology, Vol. 7, Issue 4, Sept 2018, pp 3217-3222, ISSN 2227-524X . DOI: 10.14419/ijet.v7i4.19898**[SCOPUS]**

- Sombir, Kamna Solanki, Amita Dhankhar, Sandeep Dalal "Comprehensive Study and Implementation of VANET system using IoT ", Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 9, Sept 2018, pp 169-176, ISSN 2349-5162.

- Khusbu, Kamna Solanki, Sandeep Dalal "Analyzing Opencover Code Coverage tool in

- Visual Studio ", Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 9, Sept 2018, pp 845-848, ISSN 2349-5162

- Vikas Nandal, Kamna Solanki, Amita Dhankhar, Sandeep Dalal "Performance Testing on Web Based Application using Loadrunner ", Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 9, Sept 2018, pp 37-40, ISSN 2349-5162.

- Rohit Malik, Kamna Solanki, Amita Dhankhar, Sandeep Dalal "Software Reliability Estimation using COCOMOII and Neuro Fuzzy Method ", Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 9, Sept 2018, pp 169-176, ISSN 2349-5162.

- Sombir, Kamna Solanki, Amita Dhankhar, Sandeep Dalal "Comprehensive Study and Implementation of VANET system using IoT ", Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 9, Sept 2018, pp 169-176, ISSN 2349-5162.

- Sandeep Dalal, Kamna Solanki, "Performance Analysis of BCO-m-GA technique for test case selection", Indian Journal Of Science and Technology, Vol. 11, Issue 9, March 2018, pp 1-10, p-ISSN 0974-6846, Online ISSN 0974-5645. DOI: 10.17485/ijst/2018/v11i9/110048. **[Indexed in Thomson Reuter Web Of Science (SCI Master List)]**

- Sandeep Dalal, Kamna Solanki, Sudhir, "Challenges of Regression Testing: A Pragmatic Perspective", International Journal of Advanced Research in Computer Science (IJARCS), Vol. 9, No. 1, Jan 2018. ISSN NO. 0976-5697.

- Aman Taneja, Kamna Solanki, Sandeep Dalal " Neuro Fuzzy Model for Review Classification under Big Data System", International Journal Of Computer and Mathematical Sciences, ISSN 2347-8527, Vol. 6, Issue 7, July 2017.

- Aman Taneja, Kamna Solanki, Sandeep Dalal " Robust Fuzzy Neuro System for Big Data analytics", International Journal Of Advanced Research in Computer Science, Vol. 8, Issue 7, July-August 2017, ISSN 0976-5697.

- Kamna Solanki, Dr. Yudhvir Singh, Sandeep Dalal " Comparative Evaluation of m-ACO Technique for Test Suite Prioritization", Indian Journal Of Science and Technology, Vol. 9, Issue 30, August 2016, p-ISSN 0974-6846, Online ISSN 0974-5645. **[Indexed in SCOPUS, Thomson Reuter Web Of Science (SCI Master List)] [SCOPUS]**

- Kamna Solanki, Dr. Yudhvir Singh, Sandeep Dalal " Experimental Analysis of m-ACO Technique for Regression Testing", Indian Journal Of Science and Technology, Vol. 9, Issue 30, August 2016, p-ISSN 0974-6846, Online ISSN 0974-5645. **[Indexed in SCOPUS, Thomson Reuter Web Of Science (SCI Master List)] [SCOPUS]**

- Kamna Solanki, Parul Berwal, Sandeep Dalal. " Data Mining Application for Healthseeker and provider", International Journal of Computer Applications (0975–8887) , Vo. 149, No. 8, pp 15-23, Sept. 2016.

- Kamna Solanki, Parul Berwal, Sandeep Dalal, Sudhir "Analysis of Applications of Data Mining Techniques in Healthcare", International Journal of Computer Applications (0975–8887) , Vol. 148, No. 2, pp 16-21, Aug. 2016. DOI:10.5120/ijca2016911011

- Sunayna, Kamna Solanki , Sandeep Dalal, Sudhir, "Comprehensive Study of Software Clone Detection Techniques", IOSR Journal of Computer Engineering, Vol. 18, Issue 4, Ver. II, July-August 2016, e-ISSN: 2278-0661, p-ISSN: 2278-8727.

- Alisha Dua, Sandeep Dalal, Kamna Solanki, " Efficient Routing Techniques for Heterogeneous Wireless Networks", International Journal of Computer Applications (0975–8887) Volume 127, Issue 14, pp 36-42, October 2015. .DOI 10.5120/17580-8356.
- Kamna Solanki, Sandeep Dalal, Vishal Bharti, "Software Engineering Education and Research in India: A Survey", International Journal IJES (International Journal of Engineering Studies) ISSN 0975- 6469, Vol.1, No.3, 2009. pp. 181–192.
- Sandeep Dalal, Susheela Hooda "Test Suite Minimization using Fuzzy Clustering for Aspect-Oriented Software System" IOSR Journal of Engineering (IOSRJEN) *E-ISSN : 2250-3021, p-ISSN : 2278-8719.Accepted published in sept 2018*
- Sandeep Dalal and Vandna Dahiya Review of High Utility Itemset Mining Algorithms for Big Data" Jour of Adv Research in Dynamical & Control Systems, Vol. 10, No. 3, 2018 ISSN: 1943-023X[Indexed in SCOPUS]
- Sandeep Dalal, Susheela Hooda "International Journal of Advanced Research in Computer Science (IJARCS)" on "Aspect-oriented software testing techniques: a review", Apr.2018. Published paper in ICI Indexed ISSN-09765697
- Sandeep Dalal, Sudhir "International Journal of Advanced Research in Computer Science (IJARCS)" on "Challenges of Regression Testing: Pragmatic Perspective", Vol 9 Issue 1 Jan.2018. Published paper in ICI Indexed. ISSN-09765697
- Sandeep Dalal and Neetu Rani "A Review of Multiple Layer Security of Cloud Server"International Journal of Engineering and Techniques - Volume 3 Issue 3, May- June 2017 ISSN-2395-1303
- Sandeep Dalal, Susheela Hooda, International Journal of Applied Engineering and Research (IJAER) on "A Novel Approach for Testing an Aspect-Oriented Software System using Genetic Algorithm", Nov. 2017 ISSN-0973-9769 [Indexed in SCOPUS]
- Sandeep Dalal, Susheela Hooda, "Automated Test Sequence Generation of Aspect Oriented Programs based upon UML activity Diagram", International Journal of Engineering and Technology, vol. 9, no. 2, April-May 2017, ISSN (Online): 0975-4024.
  [Indexed in SCOPUS]
- Sandeep Dalal, Seema Devi, "Security framework against denial of service Attacks in Wireless Mesh Network", Global Journal of Pure and Applied Mathemeatics, vol. 13, no. 2, pp. 829-837, 2017.
- Sandeep Dalal, Seema Arya, "A review on denial of service Attacks in Wireless Mesh Network", Advances in Wireless and Mobile Communications, vol. 10, no. 3, pp. 437-444, 2017.
- Sandeep Dalal, Jyoti Mehndia, "Routing Protocols and Security Issues in Mobile Ad-hoc Network: A review", International Journal of Computer Applications vol. 156, no. 13, pp. 1-5, December 2016.
- Sandeep Dalal, Seema Devi, "Survey on Attacks pertaining to wireless mesh network and approach towards counter measures", International Journal of Computer Applications vol. 149, no. 12, pp. 20-26, September 2016.
- Dr. Sandeep Dalal, Renu Ruhil, "Routing Based Congestion Control Metrices in MANET", Advances in Science and Technology Research Journal, Vol.8, No. 23, pp 23-40, 2014.Dr.Sandeep Dalal and Renu Ruhil. Article: Routing based Congestion Control Metric:

RFR. International Journal of Computer Applications 99(11):20-24, August 2014.

- Dr. Sandeep Dalal, Poonam Rani, "Memory efficient WDR using inverse of Echelon form by equation solving", Int. Journal of Computer Science and Mobile Computing, Vol.3, No. 7, pp 512-520, 2014.

- Sandeep Dalal and Rajender Singh Chhillar, "A Novel Technique for Generation of Test Cases based on Bee Colony Optimization and Modified Genetic Algorithm (BCOmGA)" International Journal of Advanced Research in Computer Science and Software Engineering Volume 68-No.19, April 2013.

- Sandeep Dalal and Rajender Singh Chhillar, "Empirical study of root cause analysis of software failure"paper accepted for the July sen-2013 by ACM SIGSOFT Software Engineering Notes.

- Ankita Mann,Sandeep Dalal "Measurement of Design Complexity of Different types of Inheritance using Cohesion Metrics" International Journal of Computer Applications, vol. 77, no. 3, Dec 2013.

- Ankita Mann,Sandeep Dalal,Dhreej Chhillar "An Effort to Improve Cohesion Metrics Using Inheritance" International Journal of Computational Engineering Research,Vol, 03,Issue-6,June2013

- Vimmi Makkar and Sandeep Dalal, "Ranked Keyword Search in Cloud Computing: An Innovative" International Journal of Computational Engineering Research||Vol, 03||Issue, 6|| June 2013

- Vimmi Makkar and Sandeep Dalal "Techniques of keyword search over cloud data A Review" International Journal of Computer Applications & Information Technology, Vol. 3, Issue I June-July 2013 (ISSN: 2278-7720)

- Sandeep Dalal and Rajender Singh Chhillar, "Empirical study of root cause analysis of software failure", ACM SIGSOFT, New York, USA, Volume 38 Issue 4, July 2013, pp 1-7.

- Ankita Mann,Sandeep Dalal "Measurement of Design Complexity of Different types of Inheritance using Cohesion Metrics" International Journal of Computer Applications, vol. 77, no. 3, Dec 2013.

- Ankita Mann,Sandeep Dalal,Dhreej Chhillar "An Effort to Improve Cohesion Metrics Using Inheritance" International Journal of Computational Engineering Research,Vol, 03,Issue-6,June2013

- Vimmi Makkar and Sandeep Dalal, "Ranked Keyword Search in Cloud Computing: An Innovative" International Journal of Computational Engineering Research||Vol, 03||Issue, 6|| June 2013

- Vimmi Makkar and Sandeep Dalal "Techniques of keyword search over cloud data A Review" International Journal of Computer Applications & Information Technology, Vol. 3, Issue I June-July 2013 (ISSN: 2278-7720)

- Sandeep Dalal and Rajender Singh Chhillar , "Role of Fault Reporting in Existing Software Industry,"CiiT International Journal of Software Engineering and Techn ology July 2012.

- Sandeep Dalal and Rajender Singh Chhillar, "Case Studies of Most Common and Severe Types of Software System Failure" International Journal of Advanced Research in

Computer Science and Software Engineering Volume 2, Issue 8, August 2012.

- Sandeep Dalal and Rajender Singh Chhillar, "Software Testing Three P's Paradigm and Limitations," in International Journal of Computer Applications, vol. 54, no. 12, pp. 49-54, September 2012

- Anuj Kumar, Sandeep Dalal "A Improved Navigational Approach for Component Based Web Request Engineering"IJCSMS International Journal of Computer Science & Management Studies, Special Issue of Vol. 12, June 2012 ISSN (Online): 2231 –5268

- Anuj Kumar, Sandeep Dalal, Dheeraj Chhillar" An Indexed Based Navigational Approach for Component Based Web Request Engineering" IJMRS's International Journal of Engineering Sciences, Vol. 01, Issue 02, June 2012, ISSN: 2277-9698

- Promila, Sandeep Dalal, "Study of Routing protocols in Wireless sensor networks: A Review "International Journal of Computer Application issue 2,vol 4 August-2012 ISSN: 2250-1797

- Anuj Kumar, Sandeep Dalal," Component based web request engineering:A Review" International Journal of Computer Application issue 2,vol 5 oct-2012 ISSN: 2250-1797

- Manjeet, Sandeep Dalal, "Reengineering of Modules by using Object Oriented Methodolgy :A Review Paper "International Journal of Computer Application issue 2,vol 5 oct-2012 ISSN: 2250-1797

- Manjeet, Sandeep Dalal"Design of Proposed Model for Reengineering by using Object Oriented Methodology" International Journal of Engineering Sciences Paradigms and Researches, Vol. 01, Issue 01, Oct 2012 ISSN (Online): 2319-6564

- Promila, Sandeep Dalal "Performance Evaluation of Zigbee and Leach Protocol in Wireless Sensor Network",IJEEMF International Journal of Electrical, Electronics and Mechanical Fundamentals, Vol. 03, Issue 01, Sept 2012

Papers Published in International/National Conferences

- Sandeep Dalal, "*Systematic Literature Study on User Profiles in Smart Homes" presented* in *ELSEVIER* International Conference on IoT Based Control Networks and Intelligent Systems ICICNIS 2020 Organized by St. Joseph's College of Engg. And Technology, Kottayam, India on 10-11 Dec, 2020.

- Sandeep Dalal, "Predicting *Students performance using educational data mining and learning analytics: A systematic literature review*", presented in **SPRINGER** 3rd International Conference on Innovative Data Communication Technologies and Applications (ICIDCA2020) organized by RVS College of Engineering and Technology, Coimbatore, India from 3-4 September, 2020

- Kamna Solanki, Sandeep Dalal, Amita Dhankhar, " Significance and Contribution of Technological Inputs for Rural Development", presented in 1st International Conference on Indian Science Congress Association, Rohtak Chapter on Science and Technology: Rural Development (ICSTRD-2020) Organized by Department of Chemistry, M.D.University, Rohtak from 4-5 March, 2020.

- Kamna Solanki, Sandeep Dalal, Yudhvir Singh, "Impact of m-ACO Based Test Suite

- Prioritization on Software Quality" presented in SPRINGER International Conference on Advances in Systems, Control and Computing, February 27-28, 2020 MNIT Jaipur, India.
- Dr. Sandeep Dalal, Susheela," A Novel Approach for testing an Aspect-Oriented Software System using Genetic and Fuzzy Clustering Algorithm",**International Conference on Computer and Application in Dubai** on Sept.2017.Also Available at IEEE-Xplore.
- Sandeep Dalal, Vandana Dahiya "Cloud of Things: Integration of Cloud Platform and Internet of Things" presented in National Conference on Emerging Trends in Cloud Computing and Big Data Analytics (ETCCBDA-2017) Organized by Department of Computer Science and Applications, M.D.U., Rohtak on 06 March 2017.
- Sandeep Dalal, Sudhir, Kamna Solanki "Significance and challenges during regression testing" contributed in National Conference on Emerging Trends in Cloud Computing and Big Data Analytics (ETCCBDA-2017) Organized by Department of Computer Science and Applications, M.D.U., Rohtak on 06 March 2017.
- Kamna Solanki., Sandeep Dalal, Sudhir, Madhulika "Comprehensive study of popular software testing problems" presented in 4th **IEEE** International Conference on Computing for Sustainable Development, IndiaCom-2017, 01-03 March 2017, Bharti Vidyapeeth, New Delhi, India. [IEEE Conference ID-40353][Paper to be uploaded in **IEEE-xplore**]
- Susheela, Dr. Sandeep Dalal, Kamna Solanki. "A Systematic Review of Model Based Testing in Aspect Oriented Software Testing", contributed in 3rd **IEEE** International Conference on Computing for Sustainable Development, IndiaCom-2016, 16-18 March 2016, Bharti Vidyapeeth, New Delhi, India. [IEEE Conference ID-37465][Paper available at **IEEE-xplore**]
- Kamna Solanki, Yudhvir Singh, Sandeep Dalal. "Test Case Prioritization: An approach based on modified Ant Colony Optimization", presented in **IEEE** International Conference on Computer, Communication and Control (ICCCC 2015)" organized by Medi-Caps Institute, Indore, India from 10-12 September, 2015.
  [Paper Available in **IEEE-xplore**]
- Kamna Solanki et.al. "Test Case Prioritization: An approach based on modified Ant Colony Optimization", presented in *SPRINGER* Third International Conference on Emerging Research In computing, Information, Communication and Applications (ERCICA 2015) organized by Nitte Meenakshi Institute of Technology, Bangalore, India from 31 July-1st August 2015.
- Kamna Solanki, Sandeep Dalal " Mobile Technology in Promoting Higher Education Learning System in India" published in proceedings of Conference on Emerging Trends in Mobile Technologies and Security(ETMTS-11) organized by Department of Computer Science and Application, M.D.University on March 29,2011.
- Renu Ruhil, Sandeep Dalal "Issues In Mobile Adhoc Networks: A Review" International Conference On advance informantion communication technology in engineering , DCEIT,TITS Bhiwani Haryana-India, 22-23 Nov,2013.
- Poonam, Sandeep Dalal "Various Image Processing Techniques And Its-Critical Review" "On advance informantion communication technology in engineering , DCEIT,TITS Bhiwani Haryana-India, 22-23 Nov,2013
- Sandeep Dalal "Software Testing", International Conference on History and Development of Mathematical Sciences & Symposium on Nonlinear Analysis (ICHDMS-2012)

Organized by Department of Mathematics, ,Maharshi Dayanand University, Rohtak, November 21-24, 2012.

- Ankita Maan, Sandeep Dalal, "Role of Metrics in Software Development : A Review", International Conference on History and Development of Mathematical Sciences & Symposium on Nonlinear Analysis (ICHDMS-2012) Organized by Department of Mathematics, ,Maharshi Dayanand University, Rohtak, November 21-24, 2012.

- Vimmi Makkar , Sandeep Dalal, Ankita Mann and Kamna "Software Testing Two T's Paradigm And Importance" International Conference on History and Development of Mathematical Sciences & Symposium on Nonlinear Analysis (ICHDMS-2012), Organized by Department of Mathematics, ,Maharshi Dayanand University, Rohtak, November 21-24, 2012

- Gopal Singh, Yudhvir, Sandeep Dalal, "Performance Comparison of Routing Protocols in MANETs Using NS-2", International Conference on History and Development of Mathematical Sciences & Symposium on Nonlinear Analysis (ICHDMS-2012) , Organized by Department of Mathematics, ,Maharshi Dayanand University, Rohtak, November 21-24, 2012.

- Priti Saluja, Sandeep Dalal"Role of Testing In Cloud Computing: A Review", International Conference on History and Development of Mathematical Sciences & Symposium on Nonlinear Analysis (ICHDMS-2012) , Organized by Department of Mathematics, ,Maharshi Dayanand University, Rohtak, November 21-24, 2012.

- Geeta Dalal , Sandeep Dalal,"Cloud Computing", International Conference on History and Development of Mathematical Sciences & Symposium on Nonlinear Analysis (ICHDMS-2012), Organized by Department of Mathematics, ,Maharshi Dayanand University, Rohtak, November 21-24, 2012.

- Kamna Solanki, Sandeep Dalal, Ritu Manderna, Sudhir," A Comprehensive Study of Ethical Issues In Software Engineering", International Conference on History and Development of Mathematical Sciences & Symposium on Nonlinear Analysis (ICHDMS-2012), Organized by Department of Mathematics, ,Maharshi Dayanand University, Rohtak, November 21-24, 2012

- Gopal Singh, Sandeep Dalal, "A study and Analysis of Geographic Information System's Role in Geospatial Services", International Conference on Geoinformatics for Biodiversity and Climate Change, Organized by Department of Geography, Maharshi Dayanand University, Rohtak, March 14-16, 2013

- Gopal Singh, Sandeep Dalal, "Role of E-Governance in Implementation of Government Schemes for Empowerment of Society", International Conference on Governance Issues and Corruption, Organized by Department of Economics, Maharshi Dayanand University, Rohtak, 19-20 March 2013

- Renu Ruhil, Sandeep Dalal "Issues In Mobile Adhoc Networks: A Review" International Conference On advance informantion communication technology in engineering , DCEIT,TITS Bhiwani Haryana-India, 22-23 Nov,2013

- Poonam, Sandeep Dalal "Various Image Processing Techniques And Its-Critical Review" "On advance informantion communication technology in engineering , DCEIT,TITS Bhiwani Haryana-India, 22-23 Nov,2013

- Sandeep Dalal, "Expanding education Through the Internet", workshop on Environment practices in Hotel & tourism business, Organized by IHTM, Maharshi Dayanand University, Rohtak, FEB 11, 2013
- Dr.Rajender Singh and Sandeep Dalal, "Software Testing –Importance, Principles, and Limitations", National Conference on Advances in Computing Communication Networks & Electrical Systems (NCACCNES-12) Organized by University Institute of Technology,Maharshi Dayanand University, Rohtak, March 27-28, 2012
- Sandeep Dalal and Dr.Rajender Singh. "Root cause Analysis of defects for software improvement" National Conference on spectrum of information tech. developments at india's perspective,BBC, Tarntaran-India feb 17-18,2012.
- Sandeep Dalal. "Role of ICT in education" National Seminar on Interdisciplinary Approaches to hospitality & tourism, Organized by IHTM, Maharshi Dayanand University, Rohtak, Oct 20, 2012.

- Pooja Singh and Sandeep Dalal, "Power Aware Routing in Wireless (MANET) Mobile Adhoc Network" National Conference on Emerging Trends in Mobile Technologies and Security Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 29, 2011.
- Sophia, Gopal Singh, Sandeep Dalal, Asha Rathee, " Red Taction-New Human Area Networking Technology- A Rewiew (ID_P-107, Volume II)", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013
- Gopal Singh, Sandeep Dalal, Satish Malik, " Security Issues in Mobile Ad Hoc Networks: A Review (ID_P-134, Volume II)", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013
- Asha Rathe, Gopal Singh, Sandeep Dalal, Anita " Security of Authenticated Routing Protocols (ARAN) of MANETs Using NS-2 (ID_P-146, Volume II)", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013
- Vimmi, Sandeep Dalal, Gopal Singh, " ANET(Mobile Ad Hoc Network): The Art of Networks (ID_P-160, Volume II)", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013
- Anita, Asha, Gopal Singh, Sandeep Dalal, " Comparision of Performance of AODV and DSR Routing Protocols of MANETs Using NS-2 (ID_P-177, Volume II)", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013
- Dr. Rajender Singh Chhillar, Sandeep Dalal etc "A Review on Genetic Algorithm", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013.

- Ankita Maan, Sandeep Dalal, "A Study on Impact on Software Metrics on Software Engineering", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013.
- Asha Rana, Geeta Dalal and Sandeep Dalal, "Performance Latout of Data Mining with Association Rules and Their Architecture", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013.
- Geeta Dalal, Asha Rana and Sandeep Dalal, "A Study on Mobile Computing", National Conference on Advances Computing Technologies (NCACT-13) Organized by Department of Computer Sc. & Applications, Maharshi Dayanand University, Rohtak, March 30, 2013.

Workshops/Seminars

- Attended One day Author Workshop organized by Vivekananda Library in association with Elsevier, M.D. University, Rohtak on November 18, 2016.

- Attended National Workshop on "E-Governance in India: Issues and Challenges" organized by Dept. of Public Administration, M.D. University, Rohtak on October 05, 2016.

- Paper " A Road-map of Cashless Transactions in India" presented in National Seminar on "Ensuring Accountability in Governance: Emerging Trends" organized by Dept. of Public Administration, M.D. University, Rohtak on 28th March, 2017.

- Workshop on "Network and Information security(NIS-09)", Organized by Department of Computer Science & Engineering, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, (Sonepat),Mar 6, 2009.

- Workshop on "Network and Information security(NIS-10)", Organized by Department of Computer Science & Engineering, Deenbandhu Chhotu Ram University of Science & Technology, Murthal, (Sonepat),October 21, 2010.

- National Workshop on "Application of SPSS Software in Research", Organized by IHTM, Maharshi Dayanand University, Rohtak, April 19-20, 2011.

- One Week National Workshop on "Computer Application in Research", Organized by Department of Commerce, Maharshi Dayanand University, Rohtak, Dec 04-10, 2011.

- One Day National Workshop on "Analytical skills for research in Business", Organized by Department of Commerce, Maharshi Dayanand University, Rohtak, Nov 26, 2011.

- Two Days National Workshop on "Application of e-techniques/tools in research", Organized by IHTM, Maharshi Dayanand University, Rohtak, April 19-20, 2012.

- National Seminar on "Mathematical Modeling in Science & Technolgy" TITS Biwani, 18 august 2012.

- **Extension Lectures**

1. Delivered Extension Lecture on "Cyber Crime" in AIJHM College, Rohtak

2. Delivered Extension Lecture on "Principles of Operating System" and "Internet and Web Designing" in SKITM College, Bahadurgarh on 7th April, 2017.

3. Delivered Extension Lecture on "Internet and Web Designing" in MRDAV Institute of Management Studies, Rohtak on 21st Nov. 2016.

4. Delivered Extension Lecture on "Operating System" in Meerpur University, Rewari on 7th October, 2015.

5. Delivered Extension Lecture on "Web Designing and its Career Applications" in Gaur College, Rohtak.

6. Delivered Extension Lecture on "Internet Technology and Web Designing" in Government College, Rohtak.